
PART I - ADMINISTRATIVE

Section 1. General administrative information

Title of project

Box Canyon Watershed Project

BPA project number: 9700300

Contract renewal date (mm/yyyy): 5/2000 ☒ **Multiple actions?**

Business name of agency, institution or organization requesting funding

Kalispel Tribe of Indians - Kalispel Natural Resource Department

Business acronym (if appropriate) KNRD

Proposal contact person or principal investigator:

Name Scott Hall

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NPPC Program Measure Number(s) which this project addresses

10.8B.15

FWS/NMFS Biological Opinion Number(s) which this project addresses

Does not apply

Other planning document references

Kalispel Natural Resource Department (KNRD). 1997. Fish and Wildlife Management Plan

Resident Fish Manager's Caucus. 1997. Multi-Year Implementation plan for resident fish protection, enhancement and mitigation in the Columbia River Basin. Columbia Basin Fish and Wildlife Authority. Portland, OR.

Short description

Utilizing a cost-share approach with public and private resource managers, BCWMP prioritizes and implements protection and enhancement of upland areas in a target watershed.

Target species

By restoring and preserving native habitat, the project aims to benefit all native species present, and may encourage re-establishment of native species not currently present

Section 2. Sorting and evaluation

Subbasin

Pend Oreille River

Evaluation Process Sort

CBFWA caucus	Special evaluation process	ISRP project type
Mark one or more caucus	If your project fits either of these processes, mark one or both	Mark one or more categories
<input type="checkbox"/> Anadromous fish <input checked="" type="checkbox"/> Resident fish <input type="checkbox"/> Wildlife	<input checked="" type="checkbox"/> Multi-year (milestone-based evaluation) <input checked="" type="checkbox"/> Watershed project evaluation	<input checked="" type="checkbox"/> Watershed councils/model watersheds <input type="checkbox"/> Information dissemination <input type="checkbox"/> Operation & maintenance <input type="checkbox"/> New construction <input type="checkbox"/> Research & monitoring <input type="checkbox"/> Implementation & management <input type="checkbox"/> Wildlife habitat acquisitions

Section 3. Relationships to other Bonneville projects

Umbrella / sub-proposal relationships. List umbrella project first.

Project #	Project title/description

Other dependent or critically-related projects

Project #	Project title/description	Nature of relationship
9500100	Kalispel Tribe Resident Fish	Complementary
9700400	Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams	Complementary
9106000	Pend Oreille Wetlands Wildlife Mitigation Project	Wildlife habitat improvement on adjacent land
9106001	Pend Oreille Wetlands II	Wildlife habitat improvemtn on adjacent land

Section 4. Objectives, tasks and schedules

Past accomplishments

Year	Accomplishment	Met biological objectives?
1997	Coordinated with Washington State Department of Natural Resources (DNR), Natural Resource Conservation Service (NRCS), Pend Oreille County, Pend Oreille County Conservation District (POCD), and U.S. Forest Service (USFS) to develop cost share projects.	N/A
1998	Completed the Cee Cee Ah Creek waterfall road closure and erosion project on DNR land. Implementation included reseeding eroded areas, replanting eroded and un-vegetated areas, water barring, hydrological alteration, and re-sloping landings.	N/A
1998	Completed the Papoose Road Habitat Project as a cost share project with the USFS in 1998. Project reduces sediment and improves fish habitat in major tributary to Cee Cee Ah Cr.	Yes
1998	Completed the Skookum Creek riparian habitat enhancement project through the Pend Oreille Watershed Coordinating Committee in consultation with POCD, USFWS, and NRCS. Named "Wildlife Farm of 1998" for Washington state.	Yes

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Identify degraded fish habitat	a	Search and analyze existing data on Cee Cee Ah creek
2	Identify upland management strategies that impact fish habitat	a	Associate upland management with degraded fish habitat
3	Prioritize upland watershed problem areas	a	Identify upland management activities most significantly contributing to degraded fish habitat
4	Prioritize protection, enhancement, and restoration projects within the target	a	Develop on-the-ground projects

	watershed		
		b	Implement at least two prioritized projects per year, complete with monitoring plans
5	Use information gathered in Objectives 1-4 to address other watersheds within the Box Canyon reach	a	Same as above tasks.

Objective schedules and costs

Obj #	Start date mm/yyyy	End date mm/yyyy	Measureable biological objective(s)	Milestone	FY2000 Cost %
1	5/1997	12/1997			20.00%
2	5/1997	12/1998			15.00%
3	1/1998	12/1999			15.00%
4	1/1998	12/2003		2/year, w/mon. plan	40.00%
5	1/2003	12/2003			10.00%
				Total	100.00%

Schedule constraints

It is impossible to identify all constraints and problems that may occur. We will make every attempt to progress and stay on schedule.

Completion date

2003+

Section 5. Budget

FY99 project budget (BPA obligated):

FY2000 budget by line item

Item	Note	% of total	FY2000
Personnel	1 FTE biologist and .25 FTE technician	%52	36,500
Fringe benefits	33%	%17	12,045
Supplies, materials, non-expendable property		%7	5,000
Operations & maintenance		%1	1,000
Capital acquisitions or improvements (e.g. land,		%0	

buildings, major equip.)			
NEPA costs		%0	
Construction-related support		%0	
PIT tags	# of tags:	%0	
Travel		%5	3,500
Indirect costs	19.8% of total less capital and contracts	%13	9,211
Subcontractor		%0	
Other	Office Space	%4	3,000
TOTAL BPA FY2000 BUDGET REQUEST			\$70,256

Cost sharing

Organization	Item or service provided	% total project cost (incl. BPA)	Amount (\$)
US Forest Service	Salary match/project support	%18	20,000
Pend Oreille Conservation District	Salary match	%3	3,000
USDA NRCS	Technical support	%2	2,000
Washington DNR	Salary match/project support	%9	10,000
Stimpson Lumber Co.	Salary match/project support	%2	2,000
Kalispel Tribe	Vehicle	%2	2,000
Trout Unlimited, Inc.	Volunteer time	%2	2,000
Total project cost (including BPA portion)			\$111,256

Outyear costs

	FY2001	FY02	FY03	FY04
Total budget	\$72,000	\$74,900	\$77,900	\$81,200

Section 6. References

Watershed?	Reference
<input type="checkbox"/>	Bennett, D.H. and M. Liter. 1991. Water quality, fish and wildlife characteristics of Box Canyon Reservoir, Washington. Department of Fish and Wildlife Resources College of Forestry, Wildlife and Range Sciences University of Idaho, Section 3.
<input type="checkbox"/>	Indian Claims Commission findings, Lower Pend d'Oreille or Kalispel Tribe of Indians v. United States of America. 1958. Kalispel Natural Resource Department. 1997. Fish and Wildlife Management Plan. Kalispel Tribe of Indians, Natural Resource Department

<input type="checkbox"/>	Lockwood, N., C. Donley, J. Maroney. 1995, 1996. Kalispel Resident Fish Proj. Kalispel Natural Resource Dept. BPA Ann.Rpts. 95BI37227
	USDA Forest Service. 1988. Colville National Forest Land and Resource Management Plan.
<input type="checkbox"/>	WA Dept. of Game. 1953. Correspondence from WDG to Federal Power Commission.

PART II - NARRATIVE

Section 7. Abstract

The Box Canyon Watershed Project (BCWP) (NWPPC program measure 10.8B.15) was initiated by the Kalispel Natural Resource Department as one of a number of measures designed to restore populations of native fish and meet the biological objectives of the Kalispel Resident Fish Project and to further goals outlined in the Kalispel Natural Resource Department Fish and Wildlife Management Plan (KNRD 1997). The project is an ongoing coordination, assessment, and implementation project that incorporates all landowners and managers throughout the Cee Cee Ah watershed. Recently acquired watershed assessment tools and increased emphasis on monitoring will augment technology transfer. Coordination with multiple landowners is facilitated through the Pend Oreille Watershed Coordination Committee, which comprises landowners and resource managers throughout the Pend Oreille River Basin.

BCWP is a pilot project that will facilitate protection and enhancement efforts in other watersheds within the Box Canyon Reach, as the Kalispel Resident Fish Project proposes to conduct work in other tributaries in the future. The project relies on and utilizes a cost-share approach to complete on-the-ground projects. KNRD will take the lead in monitoring and evaluation efforts, using methods developed in prior habitat work, combined with ideas shared by project partners. The Cee Cee Ah Creek watershed will be the pilot area, due to its proximity to the reservation, importance as a traditional fishery, and potential for bull and cutthroat trout recovery. Implementing upland watershed protection and enhancement through the BCWP will reduce negative impacts of upland management and increase protection and enhancement efforts of the ongoing Kalispel Resident Fish Project.

Section 8. Project description

a. Technical and/or scientific background

The Box Canyon reach of the Pend Oreille River consists of 90km of river impounded by Box Canyon Dam to the north, and extending to the base of Albeni Falls Dam to the south. Prior to completion of Box Canyon and Albeni Falls Dams in 1954 and 1955, the

Pend Oreille River was characterized a prime trout fishing reach (WA Dept. of Game, 1953). The Box Canyon reach has 47 tributaries. Ethnographers documented tribal usage of Pend Oreille tributaries in the 1930s, and Cee Cee Ah Creek, which flows through the reservation, is listed as an important fishing station for native trout and suckers (Indian Claims Commission, 1958).

In comparison with the bountiful subsistence fishery described by ethnographers and other historical sources, the fisheries of Pend Oreille River tributaries have diminished substantially. The probable cause is twofold: alteration of mainstem habitat from hydropower development, and alteration of tributary habitat through land management practices. Tributary watershed restoration holds the greatest promise for restoration of native fish species, and may provide the greatest overall benefit to tribal members and non-tribal users of the area's fish, water and wildlife. Historic timber harvest and associated roads have had several fisheries impacts: sedimentation of spawning and rearing habitat, removal of streamside shade and microclimate modification, and removal of sources of large woody instream habitat. Historic livestock management has had similar impacts. Identification, implementation and monitoring of upland watershed restoration and mitigation opportunities will restore instream habitat and aid restoration in other watersheds by identifying successful strategies.

The Box Canyon Watershed Project (BCWP) proposes to complement the Kalispel Resident Fish Project by providing protection and enhancement of watersheds within the Box Canyon reach (NWPPC measure number 10.8B.15). The ongoing Kalispel Resident Fish Project focuses on fish population inventory, habitat assessment, and stream restoration in seven major tributaries to the Box Canyon reach. Completed fishery habitat improvements consist mainly of instream and riparian projects. The BCWP is intended to broaden the scope of Kalispel Natural Resource Department (KNRD) involvement in local resource management by providing opportunities to work with state, federal, and private landowners and resource managers.

Initially, primary focus of the project is Cee Cee Ah Creek due to its proximity to the reservation, importance as a traditional fishery, and high potential for enhancement. The BCWP will rely on cost-share and other cooperative opportunities with state, federal, and private landowners to implement protection and enhancement projects within the Cee Cee Ah Creek watershed. Active restoration projects such as stream structures, road removal or modification, stabilization of sediment sources, riparian planting, and culvert replacements (Doppelt et al. 1993; Williams et al., in press) are feasible. The BCWP will address the need for upland habitat enhancements in a watershed where there are multiple landowners (USFS, State, Tribal, and private) and resource managers that actively participate with the KNRD in co-management of natural resources (Kalispel Natural Resource Department 1997). Cost-share partners currently include the U.S. Forest Service, Washington Department of Natural Resources, Pend Oreille Conservation District and USDA Natural Resource Conservation Service. Once established, the project will provide avenues to facilitate protection and enhancement effort in other watersheds within the Box Canyon reach.

b. Rationale and significance to Regional Programs

The Box Canyon Watershed Project (BCWP) is listed in the Resident Fish Manager's Caucus Multi-year Implementation Plan (MYIP) section 6.6.4.5 and will address objective 10.8B.15 in Northwest Power Planning Council's Fish and Wildlife Management Plan.

Restoring tributary populations of native cutthroat and bull trout is one the main goals of the Kalispel Resident Fish Program, adopted and incorporated into the 1994 resident fish and wildlife section of the Northwest Power Planning Council's Program and further revised in the NWPPC 1995 Program. Cee Cee Ah Creek was identified by KNRD and Washington Department of Fish Wildlife (WDFW) biologists as one of seven priority streams for enhancement of native bull trout and cutthroat trout habitat (Lockwood et al. 1997). In their analysis of Box Canyon Reservoir fisheries, Bennett and Liter (1991) provided similar recommendations. Active restoration projects such as instream structures, road removal or modification, stabilization of sediment sources, riparian planting, and culvert replacements will be utilized in this project based on assessment recommendations in Lockwood et al. (1995) and other assessment methods.

The project consists of a simple internal framework, and also relies on a network of external connections, in order to achieve the type of results seen on the Accomplishments table. The internal framework consists of three basic components: assessment, implementation, and monitoring. The assessment component identifies feasible out-of-stream projects with willing cooperators. This component has recently been augmented by acquisition of new spatial databases. Based on the new technology, a structured approach to assessment based on priorities analyzed by an existing group of landowners and resource managers in the Pend Oreille Watershed Coordinating Committee (POWCC). The implementation component requires cooperative work with the POWCC, especially the landowner, and BCWP has seen excellent results in this regard. The monitoring component will receive increased emphasis in BCWP because individual project implementation has achieved such success.

The external connections of BCWP are critical for two reasons: reliance on cooperative, cost-share approach with other resource managers, and reliance on other NPPC Fish and Wildlife Program activities in the Box Canyon reach watershed. The cooperative nature of watershed-based activities is a necessity born of the land ownership pattern in most watersheds. The POWCC has been functioning effectively for several years, and BCWP proposes to augment its function for this pilot project by two means: 1) form a smaller subcommittee for the purposes of assessment in the Cee Cee Ah watershed, and 2) use new spatial databases (aerial photography, orthophotos and digital ortho coverage) to focus and prioritize efforts. The reliance on other NPPC projects, particularly the Kalispel Resident Fish Project, is due to that project's prior work in CCA Creek, and its development of monitoring tools (Lockwood 1997).

c. Relationships to other projects

The Box Canyon Watershed Project (BCWP) is intended to complement the activities of the ongoing Kalispel Resident Fish Project by providing an upland management component. Coordination with land owners and managers is the key to the success of BCWP, as shown by the project accomplishments listed in this proposal. The Kalispel Natural Resource Department (KNRD) already has a well established co-management relationship with the USFS Colville NF-Newport District, USFS Colville NF-Sullivan Lake District, Washington State Department of Natural Resources, and Stimson Lumber Company; all landowners within the target watershed. With newly acquired assessment tools and increased emphasis on structured assessment and monitoring, KNRD will enhance and expand the relationships necessary to continue the on-the-ground accomplishments, and will provide accountability and monitoring for technology transfer.

As discussed previously, the Pend Oreille Watershed Coordinating Committee (POWCC) is the main vehicle for achieving a collaborative approach. Committee representatives in the group include: farmers/ranchers/active citizens, Ponderay Newsprint, Stimson Lumber Co., Vaagen Brothers Lumber, Crown Pacific, Pend Oreille Conservation District, Pend Oreille Environmental Team, Pend Oreille Public Utility District, Pend Oreille Planning Department, Pend Oreille Weed Board, U.S. Forest Service Newport and Sullivan Lake Districts, U.S. Fish and Wildlife Service, USDA Natural Resource Conservation Service, Washington Department of Natural Resources, Washington Department of Ecology, and Washington Department of Fish and Wildlife.

The majority of the CCA watershed, and the majority of KNRD work, are on USFS land, and the Forest Service's fish and wildlife management objectives are outlined in the Colville National Forest Plan (USDA Forest Service 1988). KNRD biologists work closely with USFS biologists to implement fish and wildlife projects according to agency and tribal management objectives. Other agencies or organizations that participate in projects with the KNRD include USDA Natural Resource Conservation Service, Pend Oreille Conservation District, Rocky Mountain Elk Foundation, Trout Unlimited, Ducks Unlimited, Spokane Flyfishers and Washington Department of Fish & Wildlife. These organizations provide cost-share and in-kind donations for on-the-ground fish and wildlife projects.

d. Project history (for ongoing projects)

The Box Canyon Watershed Project (BCWP) was one of four resident fish projects place on pending list for funding in 1997. Funding projection for FY1997 after a four-percent across the board cut was \$61,260. The project initially began with partial funding of \$17,356 and \$43,904 was reallocated midway through the Fiscal Year to fully fund the project at \$61,260 for FY1997.

Using the assessment and analysis tools available at the time, BCWP staff conducted initial assessment of Cee Cee Ah watershed, prioritized problem areas and implemented projects within them. Results were outstanding, as detailed on the Accomplishments

matrix. BCWP now proposes: 1) to revisit the assessment phase using new analysis tools and a more structured prioritization process, and 2) to augment monitoring using tools discussed in Kalispel Resident Fish Project reports and methods developed by the Cee Cee Ah watershed group.

e. Proposal objectives

The BCWP is intended to compliment the Kalispel Resident Fish Project by providing protection and enhancement of watersheds within the Box Canyon reach. The objectives are designed to meet the goal of native fisheries restoration.

BCWP proposes the following objectives:

Objective 1. Identify degraded fish habitat

Task 1a: Search and analyze existing data on Cee Cee Ah Creek.

Objective 2. Identify of upland land management strategies that have a negative effect on fish habitat.

Task 2a: Associate upland management with degraded fish habitat.

Objective 3. Prioritize upland watershed problem areas

Task 3a: Identify upland management activities most significantly contributing to degraded fish habitat.

Objective 4. Prioritize protection, enhancement, and restoration projects within the target watershed

Task 4a: Develop on-the-ground projects

Task 4b: Implement prioritized projects, at least 2 per year, with complete monitoring plans

Objective 5. Use information gathered in steps 1-4 to address other watersheds within Box Canyon reach.

Task 5a: Same as 1a – 4b above.

f. Methods

Objective 1. Identify degraded fish habitat

Task 1a: Search and analyze existing data on Cee Cee Ah Creek.

Utilizing data gathered in Kalispel Resident Fish Project instream habitat surveys, and KNRD and WDFW personnel who conducted surveys, identify and prioritize degraded fish habitat. Use other data (water quality, macroinvertebrate surveys, etc.)

Objective 2. Identify of upland land management strategies that have a negative effect on fish habitat.

Task 2a: Associate upland management with degraded fish habitat.

Using new spatial data and results of watershed analysis in nearby LeClerc Creek, identify land management strategies impacting fish habitat. Review analysis with subgroup of POWCC with specific interest in the CCA watershed,

Objective 3. Prioritize upland watershed problem areas

Task 3a: Identify upland management activities most significantly contributing to degraded fish habitat.

Using the CCA POWCC subgroup, prioritize areas and activities.

Objective 4. Prioritize protection, enhancement, and restoration projects within the target watershed

Task 4a: Develop on-the-ground projects

Using the CCA POWCC subgroup, prioritize projects.

Task 4b: Implement prioritized projects, at least 2 per year, complete with monitoring plans

Implement project, using Kalispel Resident Fish Project data, if available, as baseline data for monitoring. KNRD will develop monitoring proposal for each implemented project, using Kalispel Resident Fish Project protocols where practicable, and present it to CCA subgroup. Proposal will be modified with input from subgroup, and implemented.

Objective 5. Use information gathered in steps 1-4 to address other watersheds within Box Canyon reach.

Task 5a: Same as 1a – 4b above.

g. Facilities and equipment

The Kalispel Natural Resource Department has all suitable facilities and equipment required to implement the project. KNRD is well equipped with quality office equipment, vehicles, field equipment, and computer system that have been previously purchased and can be utilized for the project. The computer system used to store, compile, analyze data, and prepare reports is the following unit:

- Dell 620/OP GX pro Pentium Pro 200Mhz/256K

h. Budget

The salary line item reflects the staff levels necessary to implement the project objectives. The ¼ technician will be used to implement on-the-ground actions based upon the prioritized list of projects. These staff will also be responsible for the O & M and monitoring of project works.

The fringe line item is reflective of the calculated rate provided by the Kalsipel Tribe's accounting department.

The supplies and Operations line items reflect the expendable equipment necessary to complete the project objectives.

The travel line item reflects the necessary level of per diem and mileage to complete the project related tasks.

Indirects have been estimated to be about 20% for FY 2000. This line item reflects about 13% of the total budget request.

The office space line item is necessary to house the appropriate staff in order to complete the objectives of the project.

Section 9. Key personnel

Staff working on this project will require a wide range of professional requirements and skills. All people (including subcontractors) working on this project will meet or exceed specific qualifications needed to implement this project as outlined by the Kalsipel Tribe of Indians.

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EDUCATION

Master of Forestry
Yale University
New Haven, CT

Bachelor of Science, Forest Resource Management
University of California at Berkeley

PROFESSIONAL EXPERIENCE

1995 – Present Watershed Program Manager
 Kalsipel Natural Resource Department, Usk, WA
Responsible for funding, staff, facilities and products of tribal watershed/water quality program

1993 –1995 Coordinator

Lake Roosevelt Water Quality Council, Nespelem, WA
Coordinated international, inter-jurisdictional efforts to terminate pollutant sources and determine levels of toxics in mainstem Columbia reservoir

1991-1993 Forest Practice/TFW Coordinator
Northwest Indian Fisheries Commission, Olympia, WA
Coordinated fisheries/forestry interface issues and activities of 26 tribes within Washington State

1988 – 1990 Forest Practice Water Quality Program Manager
Colville Confederated Tribes, Nespelem, WA
Responsible for staff and facilities. Administered all tribal and private timber sales on reservation.

1983 – 1988 Forester/Forest Engineer
Santa Fe Pacific Timber Company, Grass Valley, CA
Responsible for 17 MMBF annual timber harvest, including roads, stream and wildlife management, and reforestation.

KALISPEL NATURAL RESOURCE DEPARTMENT

Job Description for

Biologist II

Job Description: Positions plan, organize, coordinate, implement and evaluate the management or research activities within their assigned project and recommend modification of policies and regulations as needed. Manages one or more departmentally recognized management projects for an assigned area or species; or manages one or more research projects affecting natural resources.

Duties:

1. Provide oversight and direction to technicians.
2. Provide monthly, quarterly, and annual reports
3. Integrate with Natural Resource and other Tribal Staff and perform other duties to meet the objectives of the Natural Resource Department and the Tribe.
4. Ensure that the goals and objectives of the Fish and Wildlife Management Plan are being met.
5. Attend technical and watershed meetings with state, federal, tribal entities, and other land owners/managers.
6. Provide technical and policy assistance to Program Managers, Assistant Director, and Director.
7. Formulates regulatory recommendations for proper management

8. Determines budget and staffing requirements for management and research projects; determines extent and procedures of data gathering, processing, evaluating, and degree of accuracy required;
9. Directs permanent and/or temporary technicians assigned to their area of research and management responsibility;
10. Performs other work as required.

Minimum requirements:

Bachelors of Science in Biology, Ecology, or related field
3 years experience in natural resources field

KALISPEL NATURAL RESOURCE DEPARTMENT

Job Description for

Technician I

Job Description: Assist biologists and lead technicians with restoration/enhancement projects. Assist the division staff in implementing information and education projects.

Duties:

1. Assist biologist and lead technician with the implementation of riparian hardwood and shrub plantings.
2. Assist in the construction/installation of fisheries and wildlife habitat projects.
3. Assist in the collection data associated with project monitoring.
4. Perform other duties as assigned by the biologist and lead technician.
5. Other duties as assigned.

Minimum requirements: High School diploma or GED and 1 year's experience in the natural resource field.

Section 10. Information/technology transfer

Information obtained from the project will be distributed in the form of monthly, quarterly, and annual project reports, presentations in work groups, local conservation newsletters, meetings, and field trips with local resource managers.

Congratulations!